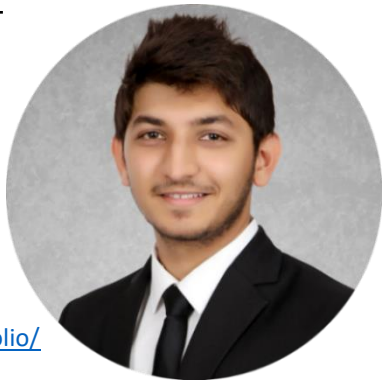
RESUME

PERSONAL DETAILS

Name:	**Rajit Sanghvi**
Address:	Tierer Str. 99D,
	D- 56072, Koblenz.
Telephone:	+49 176 42079463
E-Mail:	rajit.msanghvi@gmail.com
Birth Date:	01. June. 1995
Nationality:	Indian
Family Status:	Single
GitHub:	https://github.com/sanghvirajit
Portfolio:	https://sanghvirajit19.github.io/Portfolio/



PROFESSIONAL EXPERIENCE

10/2020 - current

Universität Koblenz-Landau, Koblenz, Germany.
Research Associate, Institute of Mathematics and Computer Science

- **Research** in **Mathematical Optimization**, and **Deep Neural Networks (DNN).**
- Parallel training of Deep Neural Networks.
- Computational Programming using powerful linear algebra package **EIGEN in C++** and **Data Analysis/Visualization** using **Python** packages like **NumPy, Pandas, Matplotlib,** and **Seaborn.**

03/2021 - current

Neptune.ai
Technical Writer, Freelance

- I write about **Deep learning** using the deep learning framework like **Tensorflow** and **PyTorch**, and the ML experiment tracking tool Neptune.
- https://neptune.ai/blog/early-stopping-with-neptune

05/2020 - 09/2020

Simerics GmbH, Rottenburg am Neckar, Germany.
Internship, Research and Development

- Development of **Python library** for mixed timescale coupling using **Python packages** like **NumPy, Pandas, Matplotlib, and Seaborn.**
- Implementation of **numerical Fluid-Structure Interaction (FSI) coupling algorithms** for FSI coupling adapters in Python.

05/2019 -11/2019

IAV GmbH, Chemnitz, Germany.
Master's thesis, Department of Internal Combustion Engine Simulation.

- Investigation of the Turbine Downstream to increase the turbine pressure ratio and thus the turbine performance. Perform meshing and 3D- CFD simulations of the models using CFD-tool StarCCM+.

10/2018 - 03/2019

Bosch Rexroth AG, Lohr am main, Germany.
Internship, Industrial Hydraulics Department.

- **Shape optimization** of hydraulic valves and pumps using the adjoint method with CFD simulation to determine the optimal design with the objective function of minimizing pressure drop.

LANGUAGES

German (B1)

English

SKILLS

Keras

TensorFlow

PyTorch

SQL

LaTex

Numpy Pandas, Matplotlib, Seaborn

PROGRAMMING- SKILLS

Python

C/C++

Matlab

OPERATING SYSTEMS

Windows

Linux

HOBBIES

Cooking

Reading

Table-Tennis

09/2016 -09/2017	Bosch Rexroth (India) Pvt Ltd. **Design Engineer, Hydraulic Control Department.** • Design and testing of industrial hydraulic valves. Creation of 2D/3D technical drawings with CAD programs.

EDUCATION

10/2017 -09/2020	**Masters of Science in Computational Science and Engineering** Ruhr-Universität Bochum, Germany Abschlussnote: 1.6
06/2012 -03/2016	**Bachelor of Technology in Mechanical Engineering** Indus University, India Abschlussnote: 9.22/10

ONLINE COURSE

May 2021	**The Complete SQL BootCamp 2021** Udemy • Read and write complex queries to a database using **PostgreSQL** and **PgAdmin**. • Retrieve and Analyzing data from the database. • **Using psycopg2** library in Python to interact with a database in PostgreSQl.

VOLUNTEERING EXPERIENCE

02/2018 - 03/2019	**Vice President, Student Council** Ruhr-Universität Bochum, Germany • Representing the student body at various events and other meetings. • Planning and implementing various social events.

AWARDS

2017	**Gold Medal** Indus Universität, India Awarded for academic excellence in the bachelor's degree program.

REFERENCES

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Koblenz, 06/2021

Place, date - signature